15. In triangle ABC, AC = 372 feet, A = 48°, C = 90°. Find approximately the length of BC, having previously found for 48° the ratio $\frac{\text{perp.}}{\text{base}}$.

16. Draw an irregular quadrilateral, and construct another of same shape and with linear dimensions half those of former. Verify equality of corresponding angles, and ratio of sides and of diagonals.

17. Draw an irregular pentagon, and construct another of same shape and with linear dimensions one-third those of former. Verify equality of corresponding angles, and ratio of sides and of diagonals.

18. Make a map of Lake Superior with linear dimensions half those of map given in your atlas, properly placing islands. Verify correctness by finding ratio of distances of pairs of corresponding points.

19. Make a map of Mackenzie River from Great Slave Lake to Arctic Ocean, half the size of that given in your atlas. Test correctness by finding ratio of distances between pairs of corresponding points.

20. Construct a triangle with sides 50, 30 and 48 millimetres. Bisect the angle opposite the last side. In what ratio are the segments into which this hisecting line divides this side? Does the same ratio exist elsewhere in the figure?